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\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America  
NEWS 2 Apr 08 "Ask CAS" for self-help around the clock  
NEWS 3 Apr 09 BEILSTEIN: Reload and Implementation of a New Subject Area  
NEWS 4 Apr 09 ZDB will be removed from STN  
NEWS 5 Apr 19 US Patent Applications available in IFICDB, IFIPAT, and  
IFIUDB  
NEWS 6 Apr 22 Records from IP.com available in CAPLUS, HCAPLUS, and  
ZCAPLUS  
NEWS 7 Apr 22 BIOSIS Gene Names now available in TOXCENTER  
NEWS 8 Apr 22 Federal Research in Progress (FEDRIP) now available  
NEWS 9 Jun 03 New e-mail delivery for search results now available  
NEWS 10 Jun 10 MEDLINE Reload  
NEWS 11 Jun 10 PCTFULL has been reloaded  
NEWS 12 Jul 02 FOREGE no longer contains STANDARDS file segment  
NEWS 13 Jul 22 USAN to be reloaded July 28, 2002;  
saved answer sets no longer valid  
NEWS 14 Jul 29 Enhanced polymer searching in REGISTRY  
NEWS 15 Jul 30 NETFIRST to be removed from STN  
NEWS 16 Aug 08 CANCERLIT reload  
NEWS 17 Aug 08 PHARMAMarketLetter(PHARMAML) - new on STN  
NEWS 18 Aug 08 NTIS has been reloaded and enhanced  
NEWS 19 Aug 19 Aquatic Toxicity Information Retrieval (AQUIRE)  
now available on STN  
NEWS 20 Aug 19 IFIPAT, IFICDB, and IFIUDB have been reloaded  
NEWS 21 Aug 19 The MEDLINE file segment of TOXCENTER has been reloaded  
NEWS 22 Aug 26 Sequence searching in REGISTRY enhanced  
NEWS 23 Sep 03 JAPIO has been reloaded and enhanced  
NEWS 24 Sep 16 Experimental properties added to the REGISTRY file  
NEWS 25 Sep 16 CA Section Thesaurus available in CAPLUS and CA  
NEWS 26 Oct 01 CASREACT Enriched with Reactions from 1907 to 1985  
NEWS 27 Oct 21 EVENTLINE has been reloaded  
NEWS 28 Oct 24 BEILSTEIN adds new search fields  
NEWS 29 Oct 24 Nutraceuticals International (NUTRACEUT) now available on  
STN  
NEWS 30 Oct 25 MEDLINE SDI run of October 8, 2002  
NEWS 31 Nov 18 DKILIT has been renamed APOLLIT  
NEWS 32 Nov 25 More calculated properties added to REGISTRY  
NEWS 33 Dec 02 TIBKAT will be removed from STN  
NEWS 34 Dec 04 CSA files on STN  
NEWS 35 Dec 17 PCTFULL now covers WP/PCT Applications from 1978 to date  
NEWS 36 Dec 17 TOXCENTER enhanced with additional content  
NEWS 37 Dec 17 Adis Clinical Trials Insight now available on STN  
NEWS 38 Dec 30 ISMEC no longer available

NEWS 39 Jan 13 Indexing added to some pre-1967 records in CA/CAPLUS  
NEWS 40 Jan 21 NUTRACEUT offering one free connect hour in February 2003  
NEWS 41 Jan 21 PHARMAML offering one free connect hour in February 2003  
NEWS 42 Jan 29 Simultaneous left and right truncation added to COMPENDEX,  
ENERGY, INSPEC

NEWS EXPRESS January 6 CURRENT WINDOWS VERSION IS V6.01a,  
CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),  
AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002  
NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS INTER General Internet Information  
NEWS LOGIN Welcome Banner and News Items  
NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 16:48:59 ON 06 FEB 2003

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 16:49:07 ON 06 FEB 2003

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 5 FEB 2003 HIGHEST RN 486392-61-4

DICTIONARY FILE UPDATES: 5 FEB 2003 HIGHEST RN 486392-61-4

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties

in the CAS Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

```
=> e 188171-62-2/pn
**** START OF FIELD ****
E3      0 --> 188171-62-2/PN
E4      4      AU699075/PN
E5      4      AU701954/PN
E6      4      AU709385/PN
E7      8      AU711559/PN
E8     16      AU715462/PN
E9     24      AU717638/PN
E10    10      AU723178/PN
E11    12      AU724493/PN
E12    20      AU735248/PN
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=> e 188171-62-2/rn
E1      1      188171-60-0/RN
E2      1      188171-61-1/RN
E3      1 --> 188171-62-2/RN
E4      1      188171-63-3/RN
E5      1      188171-64-4/RN
E6      1      188171-65-5/RN
E7      1      188171-66-6/RN
E8      1      188171-67-7/RN
E9      1      188171-68-8/RN
E10     1      188171-69-9/RN
E11     1      188171-70-2/RN
E12     1      188171-71-3/RN
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```
=> s e3
L1      1 188171-62-2/RN
```

=> file caplus		
COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	1.20	1.41

FILE 'CAPLUS' ENTERED AT 16:50:39 ON 06 FEB 2003  
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
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FILE COVERS 1907 - 6 Feb 2003 VOL 138 ISS 6  
 FILE LAST UPDATED: 5 Feb 2003 (20030205/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 11

L2 2 L1

=> d 12 ibib abs hitstr 1-2

L2 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1999:402490 CAPLUS

DOCUMENT NUMBER: 131:208765

TITLE: Inhibition of tumor invasion and metastasis by a novel

lysophosphatidic acid (cyclic LPA)  
AUTHOR(S): Mukai, Mutsuko; Imamura, Fumio; Ayaki, Masako; Shinkai, Kiyoko; Iwasaki, Teruo; Murakami-Murofushi, Kimiko; Murofushi, Hiromu; Kobayashi, Susumu; Yamamoto, Takashi; Nakamura, Hiroyuki; Akedo, Hitoshi

CORPORATE SOURCE: Department of Tumor Biochemistry, Osaka Medical Center

for Cancer and Cardiovascular Diseases, Osaka, Japan  
SOURCE: International Journal of Cancer (1999), 81(6),

918-922

CODEN: IJCNAW; ISSN: 0020-7136

PUBLISHER: Wiley-Liss, Inc.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Fetal calf serum (FCS) and 1-oleoyl lysophosphatidic acid (LPA) were previously found to be potent inducers of invasion (transcellular migration) in an in vitro system. A novel LPA, composed of cyclic phosphate and cyclopropane-contg. hexadecanoic acid (PHYLPA), first isolated from myxamoebae of Physarum polycephalum, and its synthetic derivs. (cLPA) were tested for their ability to inhibit tumor cell invasion and metastasis. Among these, Pal-cLPA, which has a palmitoyl moiety, was most potent in inhibiting invasion, with 93.8% inhibition at the concn. of 25 .mu.M. Invasion in vitro by mouse melanoma cells (B16), human pancreatic adenocarcinoma cells (PSN-1), human lung cancer cells (OC-10) and human fibrosarcoma cells (HT-1080) was also inhibited by Pal-cLPA. The stimulation of MMI cells with LPA triggered F-actin formation, which was impaired by the addn. of Pal-cLPA at invasion-inhibitory concn. Pal-cLPA induced a rapid increase in adenosine

3',5'-cyclic monophosphate (cAMP) concn. in MMI cells. The addn. of dibutyryl cAMP significantly abrogated LPA-induced invasion by MMI cells and actin polymn. in the cells. The inhibition of MM I cell invasion by Pal-cLPA may be ascribed to an increased level of cAMP. Pal-cLPA also suppressed invasion in vitro by MMI cells induced by FCS dose

dependently,

without affecting proliferation. It also suppressed the pulmonary metastasis of B 16 mouse melanoma cells injected into the tail vein of C57BL/6 mice. Thus, Pal-cLPA is effective in inhibiting invasion and metastasis of a variety of tumor cells.

IT 100171-62-2

RL: BAC (Biological activity or effector, except adverse); BSU  
(Biological

study, unclassified); THU (Therapeutic use); BIOL (Biological study);

USES

(Uses)

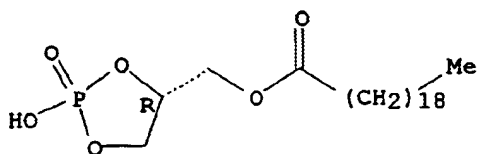
(inhibition of tumor invasion and metastasis by a novel lysophosphatidic acid derivs.)

RN 188171-62-2 CAPLUS

CN Eicosanoic acid,

[(4R)-2-hydroxy-2-oxido-1,3,2-dioxaphospholan-4-yl]methyl ester, sodium salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● Na

REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L2 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1997:237764 CAPLUS

DOCUMENT NUMBER: 126:220705

TITLE: Tumor metastasis inhibitors containing 1-O-acylglycerol-2,3-phosphates

INVENTOR(S): Kobayashi, Susumu; Matsumoto, Myoko; Onimura, Kenjiro;

Aketo, Hitoshi; Aragai, Kyoko; Mukai, Michiko

PATENT ASSIGNEE(S): Sagami Chem Res, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

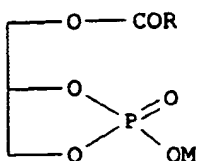
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09025235	A2	19970128	JP 1995-177170	19950713
PRIORITY APPLN. INFO.:			JP 1995-177170	19950713
OTHER SOURCE(S):		MARPAT 126:220705		
GI				



I

AB The metastasis inhibitors contain the title compds. I (R = C2-30 linear  
or branched alkyl, alkenyl, alkynyl which may contain cycloalkane ring; M =  
H, counter cation) as active ingredients. I (COR = palmitoyl, M = Na)  
(prepn. given) at 25 .mu.M showed >99% inhibition against  
1-O-oleoyllysophosphatidic acid-induced infiltration of rat ascites  
hepatoma cell (MM1) into a cultured monolayer of peritoneal mesothelial  
cells, vs. 96% at 12.5 .mu.M for PHYLPA.

IT 188171-62-2P

RL: BAC (Biological activity or effector, except adverse); BSU

(Biological

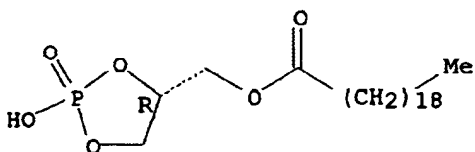
study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);  
BIOL (Biological study); PREP (Preparation); USES (Uses)  
(prepn. of 1-O-acylglycerol-2,3-phosphates as tumor metastasis  
inhibitors)

RN 188171-62-2 CAPLUS

CN Eicosanoic acid,

[(4R)-2-hydroxy-2-oxido-1,3,2-dioxaphospholan-4-yl]methyl  
ester, sodium salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● Na

=>

---Logging off of STN---

=>

Executing the logoff script...

Page 7

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	9.91	11.32
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-1.30	-1.30

STN INTERNATIONAL LOGOFF AT 16:51:43 ON 06 FEB 2003